

ANNA CURREY

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EDUCATION

Ph.D. in Informatics; University of Edinburgh 2016 - 2019 (expected)

- Thesis: Moving Beyond Parallel Resources in Neural Machine Translation

M.Sc. in Language Science and Technology; Saarland University 2014 - 2016

- Thesis: Dynamic Adjustment of Language Models for Automatic Speech Recognition
- Sponsored by Erasmus Mundus Category A Scholarship
- GPA: 1.0 / 1.0 (1-5 scale; lower is better)

B.A. in Mathematics and Linguistics; University of California, Berkeley 2006 - 2010

- Highest Distinction in General Scholarship (equivalent to *summa cum laude*)
- GPA: 3.97 / 4.0

RESEARCH EXPERIENCE

Ph.D. Researcher; University of Edinburgh 2016 - present

Design, implement, and test research on syntactic neural machine translation (NMT), multilingual NMT, generative adversarial nets, and low-resource natural language processing

- Technologies: Python, TensorFlow, PyTorch, Microsoft Azure, Stanford CoreNLP, Git

Research Intern; Apple 2018

Performed independent and collaborative research on neural machine translation as a member of the Siri team

- Technologies: several machine translation and deep learning technologies

Graduate Student Researcher; Jelinek Summer Workshop 2017

Brainstormed and implemented strategies for semi-supervised and unsupervised neural machine translation using generative adversarial nets

- Technologies: Python, MXNet, Amazon AWS, Git, Bash

Research Intern; MULTISPEECH Team, Inria 2016

Designed and implemented techniques for dynamically adding out-of-vocabulary words to language models using word embeddings in a speech-based information retrieval system

- Technologies: Python, Gensim, NLTK, Linux

PROFESSIONAL EXPERIENCE

Teaching Assistant; University of Edinburgh 2016 - present

Lead tutorials, support students, and give feedback on coursework for courses on machine translation and natural language processing

- Technologies: Python, NLTK, Chainer, NumPy, Linux, Bash

Product Designer; IXL Learning 2012 - 2014

Designed and managed lifecycle of over thirty features for four educational software products, from conception to production

- Technologies: SQL, HTML, CSS, PHP

Analyst; Beghou Consulting 2011

Developed sales force management systems and maintained customer databases for pharmaceutical companies

- Technologies: SAS, SQL, VBA, Access

SELECTED PUBLICATIONS

1. **Anna Currey** and Kenneth Heafield. 2018. Multi-Source Syntactic Neural Machine Translation. *Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*.
2. **Anna Currey** and Kenneth Heafield. 2018. Unsupervised Source Hierarchies for Low-Resource Neural Machine Translation. *ACL Workshop on Relevance of Linguistic Structure in Neural Architectures for NLP (RELNLP 2018)*.
3. **Anna Currey**, Antonio Valerio Miceli Barone, and Kenneth Heafield. 2017. Copied Monolingual Data Improves Low-Resource Neural Machine Translation. *EMNLP Second Conference on Machine Translation (WMT17)*.
4. Rico Sennrich, Alexandra Birch, **Anna Currey**, Ulrich Germann, Barry Haddow, Kenneth Heafield, Antonio Valerio Miceli Barone, and Philip Williams. 2017. The University of Edinburgh's Neural MT Systems for WMT17. *WMT17*.
 - Best constrained English-Turkish and Turkish-English machine translation systems on the news translation shared task
5. **Anna Currey**, Irina Illina, and Dominique Fohr. 2016. Dynamic Adjustment of Language Models for Automatic Speech Recognition. *IEEE Workshop on Spoken Language Technology (SLT 2016)*.
6. **Anna Currey**, Alina Karakanta, and Jon Dehdari. 2016. Using Related Languages to Enhance Statistical Language Models. *NAACL Student Research Workshop (NAACL SRW 2016)*.